



Documents Prepared By: Lyndon F. Schmidt, P.E.
TEXAS P.E. #104123

RW BUILDING CONSULTANTS, INC.
P.O. Box 230 Valrico FL, 33595
Phone No.: 813.659.9197

TEXAS BOARD OF PROFESSIONAL ENGINEERS
CERTIFICATE OF REGISTRATION # F-11852

"Traditions" Series

Opaque "Impact" Steel Doors w/ or w/o "Non-Impact" Sidelites

INSWING / OUTSWING

EVALUATED FOR USE IN THE STATE OF TEXAS

The Steel Door system described herein complies with the 2018 International Residential Code (IRC), Sections R301 & R609 and the 2018 International Building Code (IBC), Sections 1404.13, 1609, 1709.5, 2403 and 2404 subject to the following conditions:

1. Anchors shall be as listed and spaced as shown in the details. Anchor embedment to base material shall be beyond wall dressing or stucco.
2. When used in areas requiring wind-borne debris protection, the opaque door does not require impact protection while the sidelites are required to be protected with an impact resistant covering that complies with Section R301.2.1.2 of the IRC and Section 1609.2 of the IBC.
3. Allowable design pressure requirements must be equal to or less than the design pressure rating shown in the design pressure chart, sheet 1 of this drawing.
4. Conditions not covered by this drawing are subject to further engineering analysis.

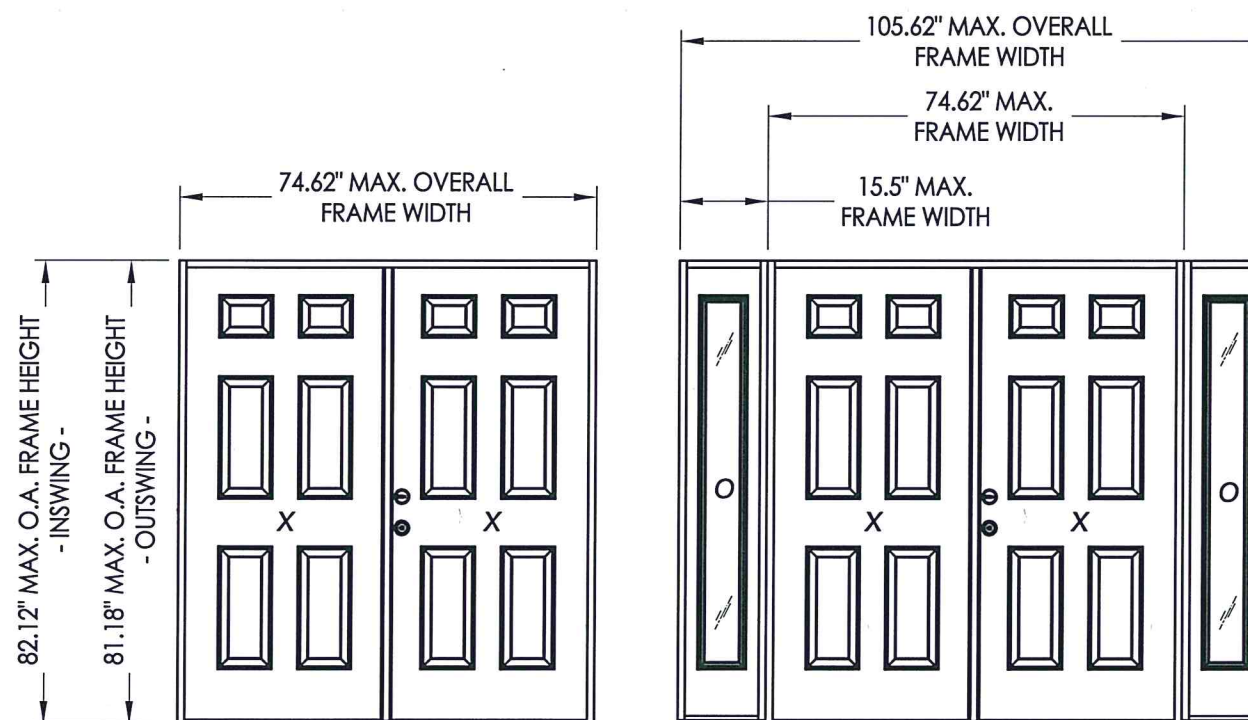
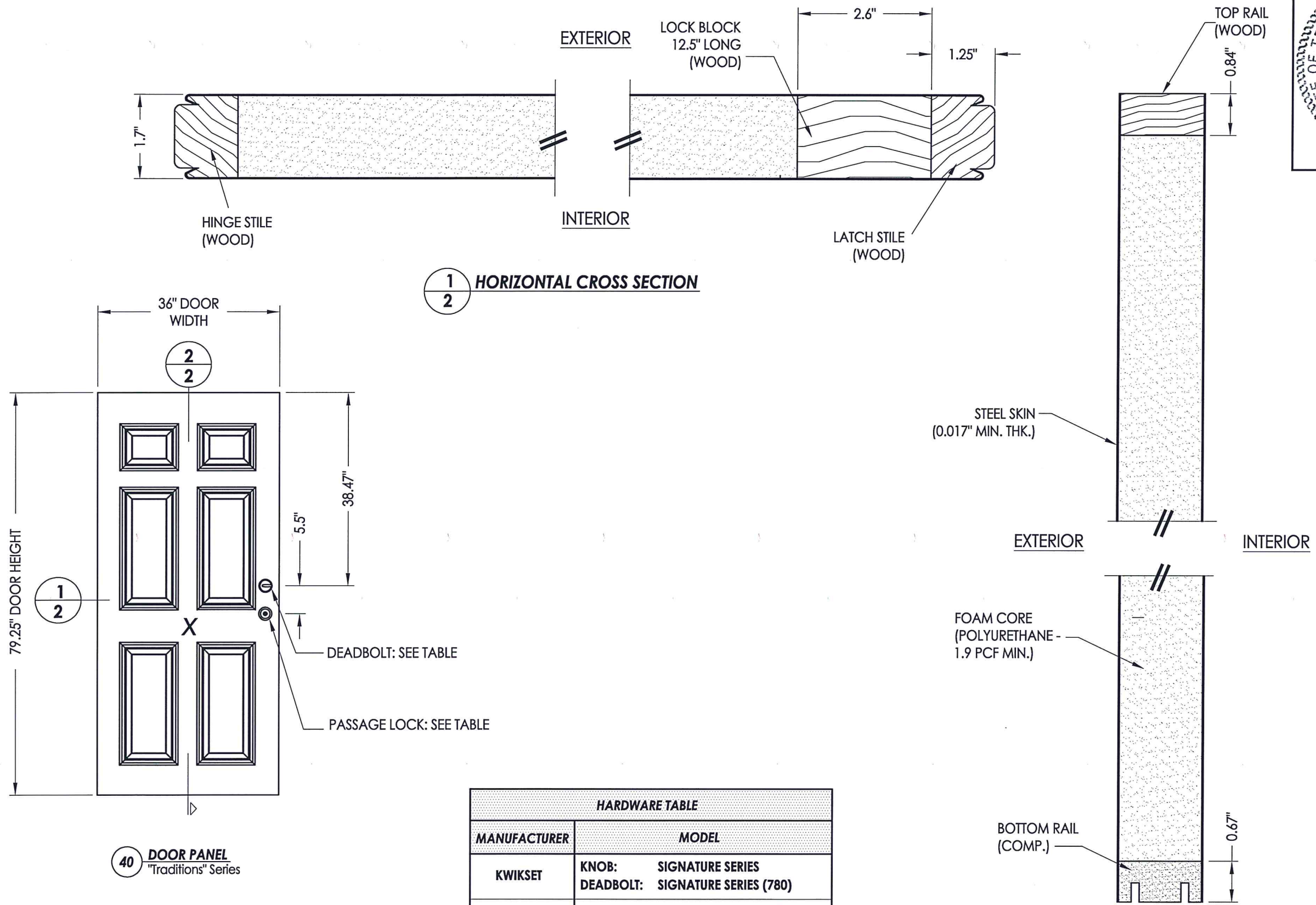


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7	Vertical cross sections
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9	Astragal details
10	Bill of materials and components

CONFIGURATION	MAX. FRAME DIMENSION	MAX. D.L.O. DIMENSION	SWING	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
XX	74.62" x 82.12"	N/A	INSWING	+50.0	-55.0
	74.62" x 81.18"		OUTSWING	+50.0	-50.0
OXXO	105.62" x 82.12"	6.0" x 63.0"	INSWING	+50.0	-55.0
	105.62" x 81.18"		OUTSWING	+50.0	-50.0

PRODUCT:	THERMA-TRU STEEL DOOR
PART OR ASSEMBLY:	TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
DATE	4/28/20
NO.	1
BY	LFS
REVISIONS	
DATE:	01/23/13
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	TX-4303
SHEET	1 OF 10



1
2 HORIZONTAL CROSS SECTION

2
2 VERTICAL CROSS SECTION

40 DOOR PANEL
"Traditions" Series

HARDWARE TABLE		
MANUFACTURER	MODEL	
KWIKSET	KNOB:	SIGNATURE SERIES
	DEADBOLT:	SIGNATURE SERIES (780)
SCHLAGE	KNOB:	"F" SERIES (F10)
	DEADBOLT:	"B" SERIES (B60/62)



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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: DOOR PANEL DETAILS

NO.	DATE	REVISIONS
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE
		LFS
		BY

DATE: 01/23/13

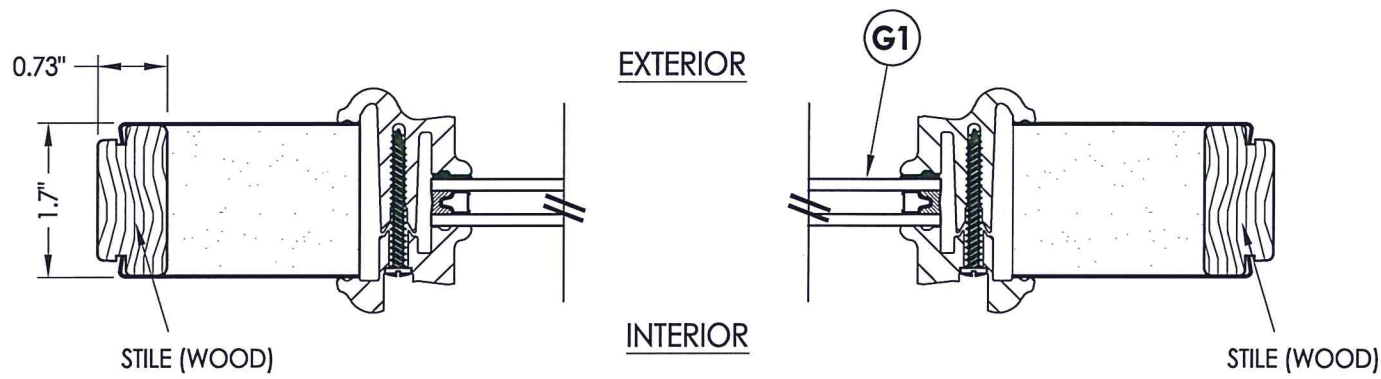
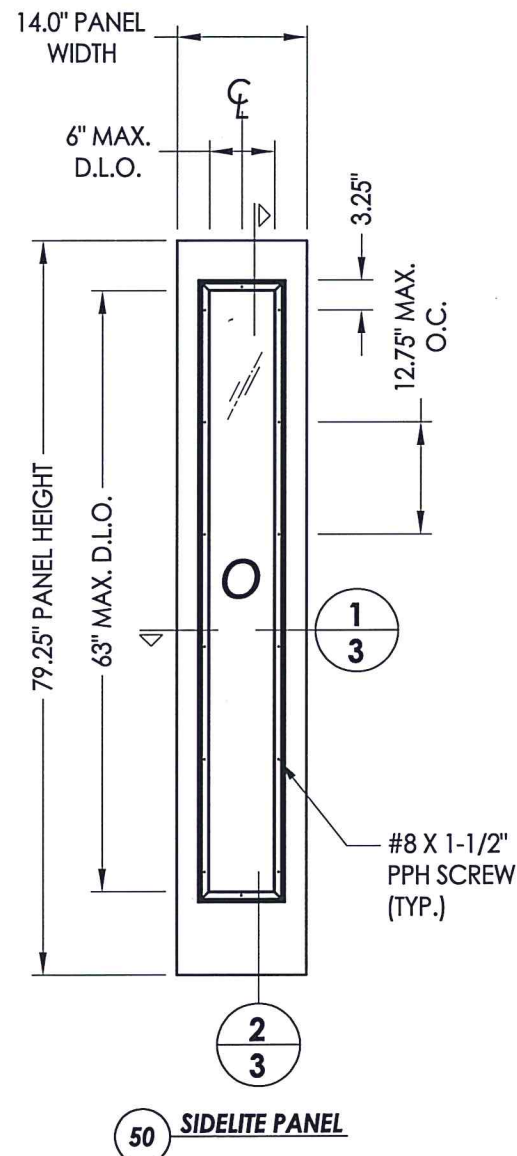
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DWG. BY: JK

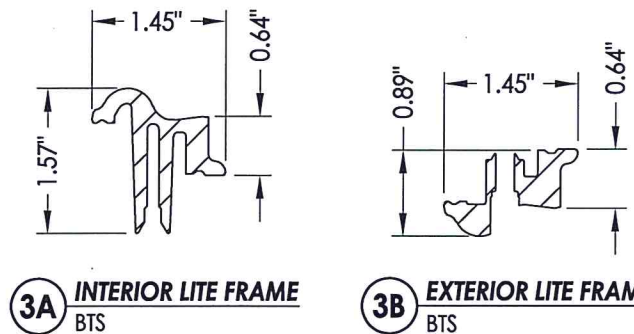
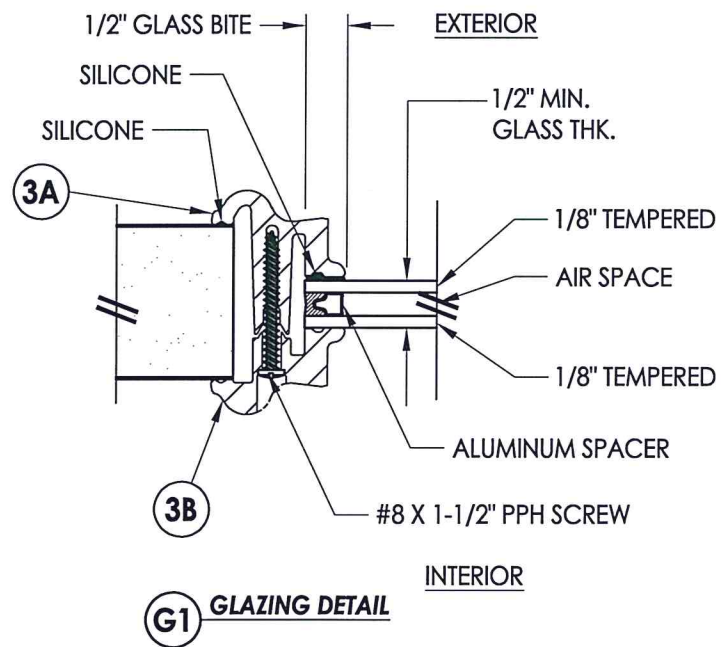
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DRAWING NO.: TX-4303

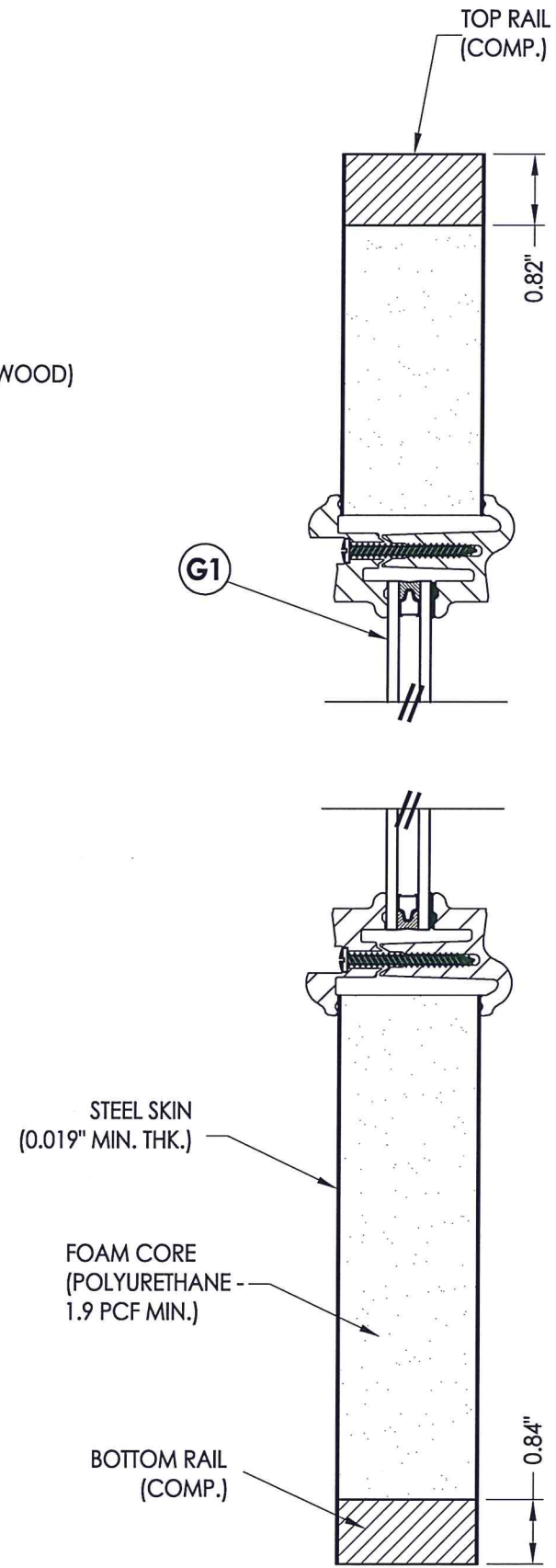
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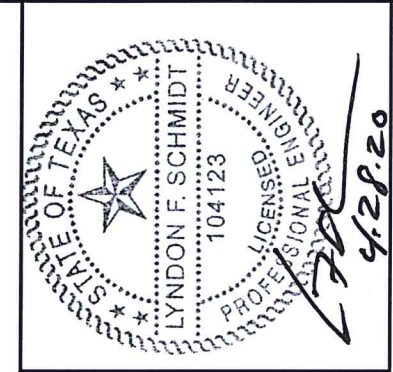
1
3 HORIZONTAL CROSS SECTION



3B EXTERIOR LITE FRAME BTS



2
3 VERTICAL CROSS SECTION



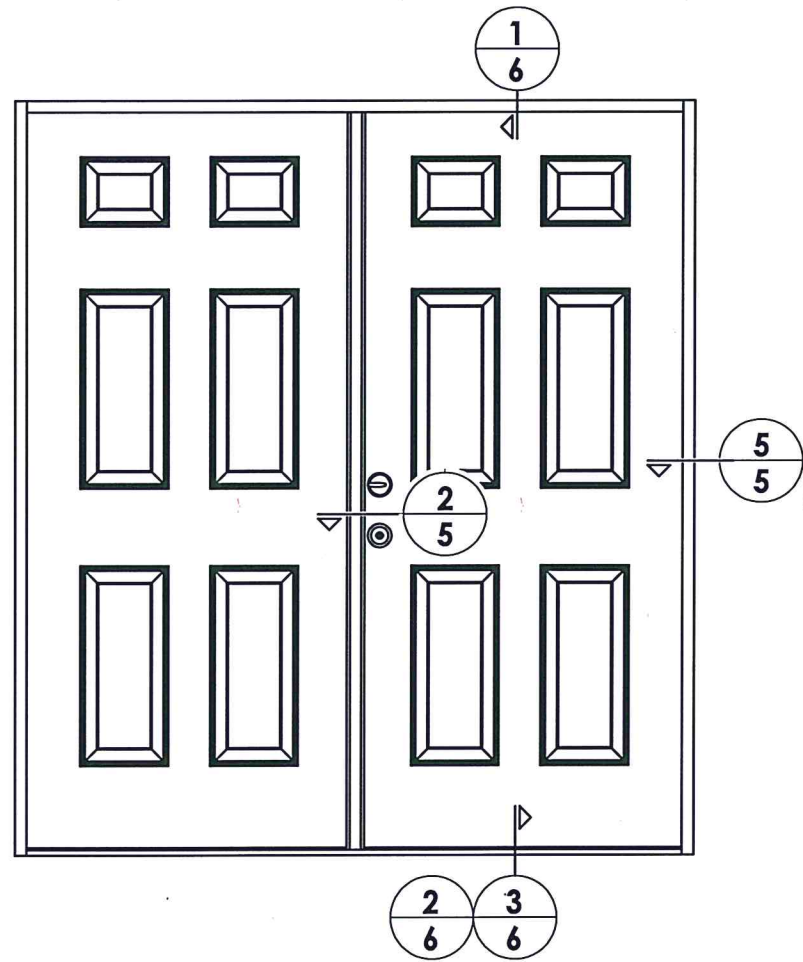
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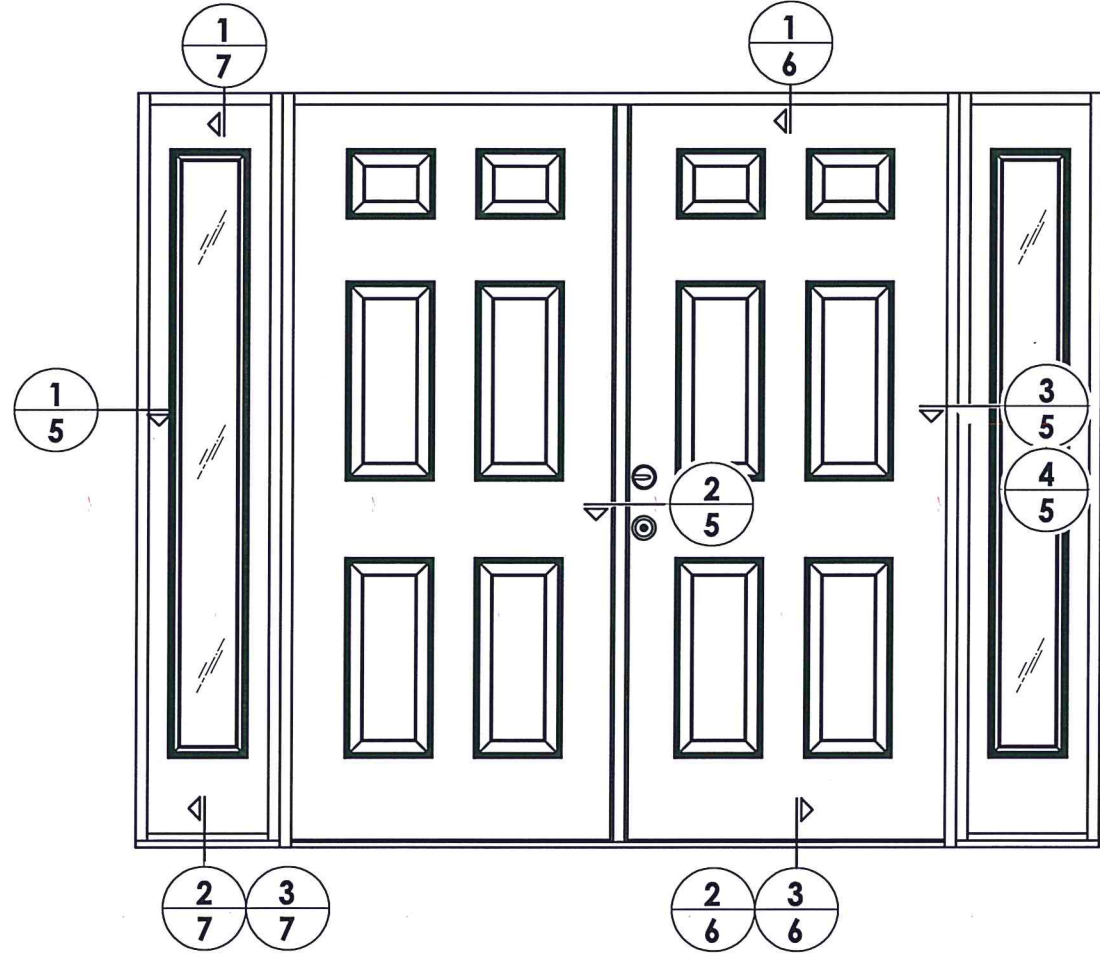
PRODUCT: THERMA-TRU STEEL DOOR
PART OR ASSEMBLY: SIDELITE PANEL DETAILS AND GLAZING DETAIL

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1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			

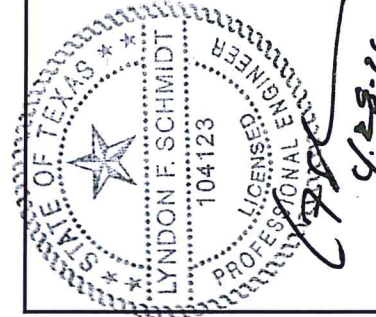
DATE: 01/23/13
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SHEET 3 OF 10



ELEVATION (XX)



ELEVATION (OXXO)



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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: ELEVATIONS

NO.	DATE	UPDATE TO 2018 IBC/IRC CODE	LFS	BY
1	4/28/20			

DATE: 01/23/13

SCALE: N.T.S.

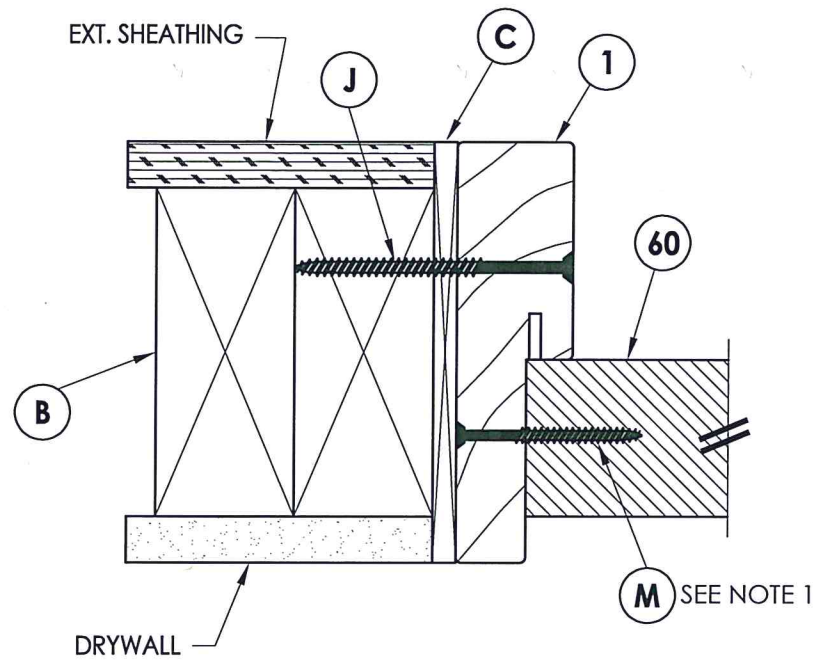
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CHK. BY: LFS

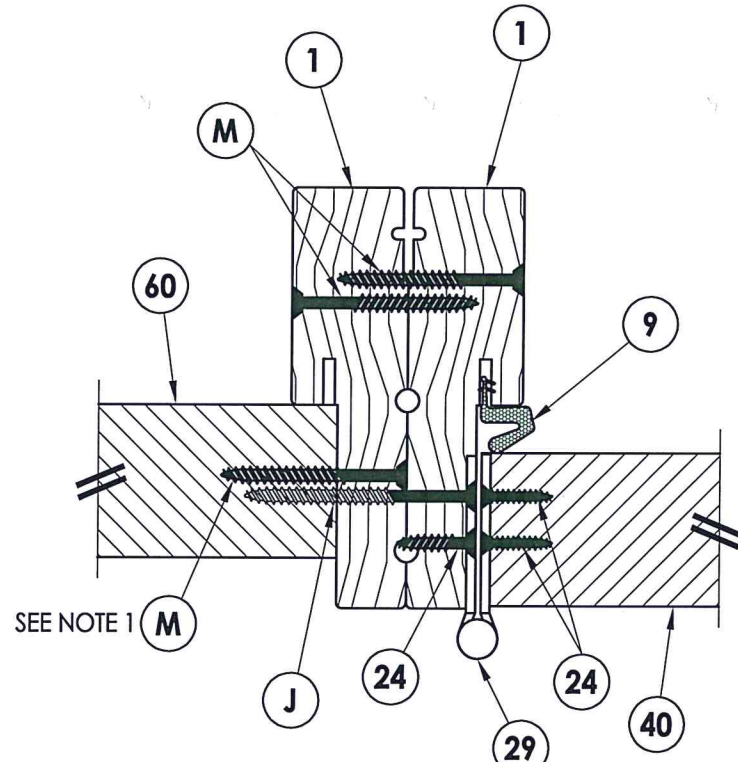
DRAWING NO.: TX-4303

SHEET 4 OF 10

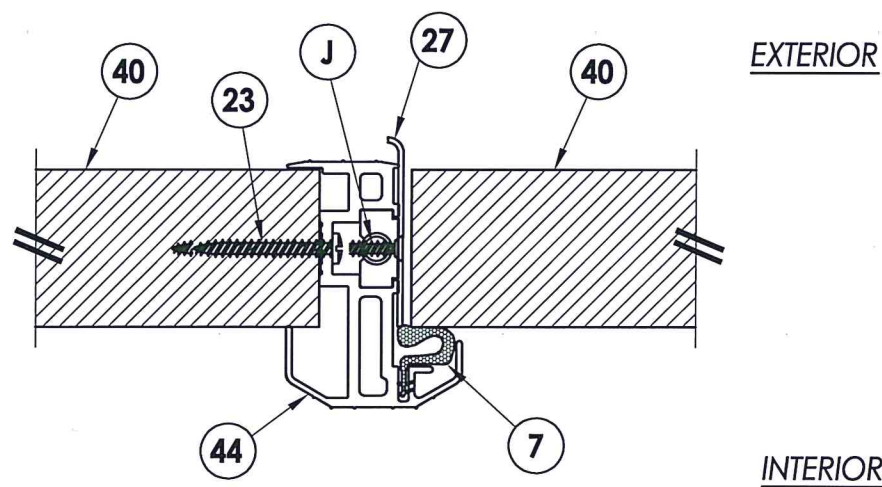
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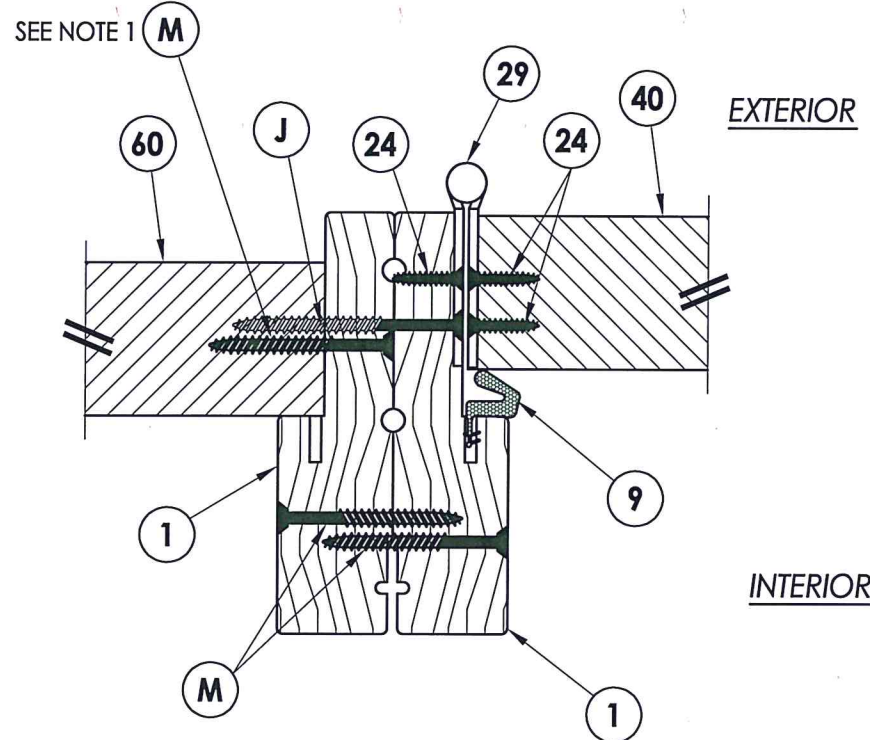
1 HORIZONTAL CROSS SECTION
5 Inswing shown - Outswing also approved



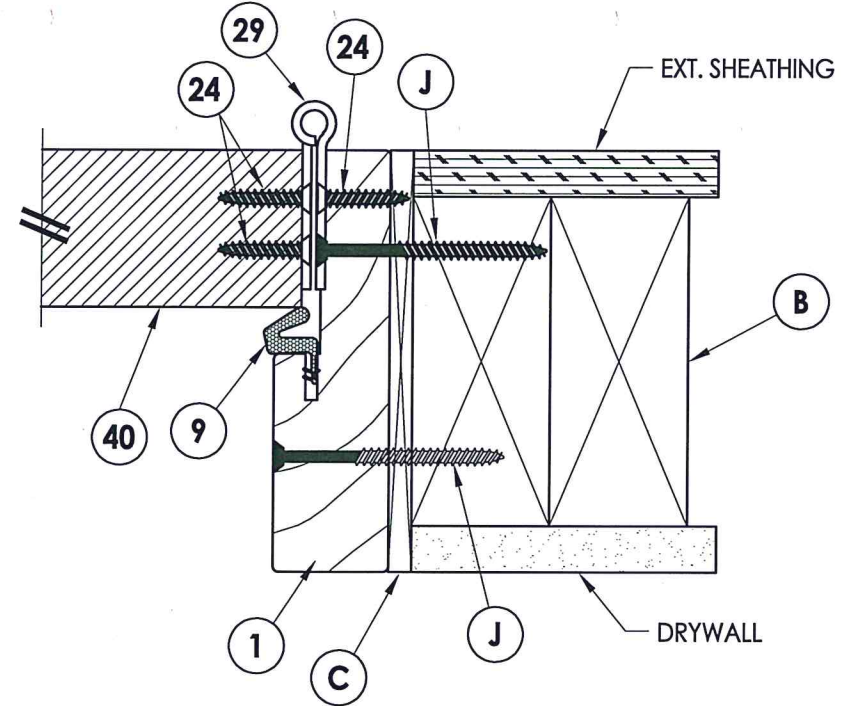
3 HORIZONTAL CROSS SECTION
5 Inswing shown



2 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved

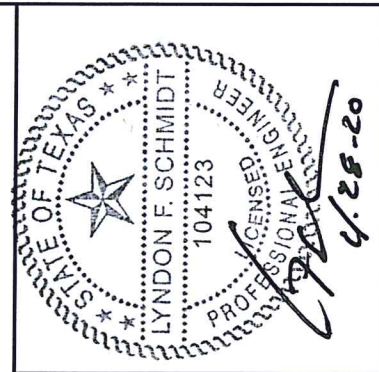


4 HORIZONTAL CROSS SECTION
5 Outswing shown



5 HORIZONTAL CROSS SECTION
5 Outswing shown - Inswing also approved

Note:
 1. Sidelite assembly screws located 6" from each end plus 4 more equally spaced (6 total).



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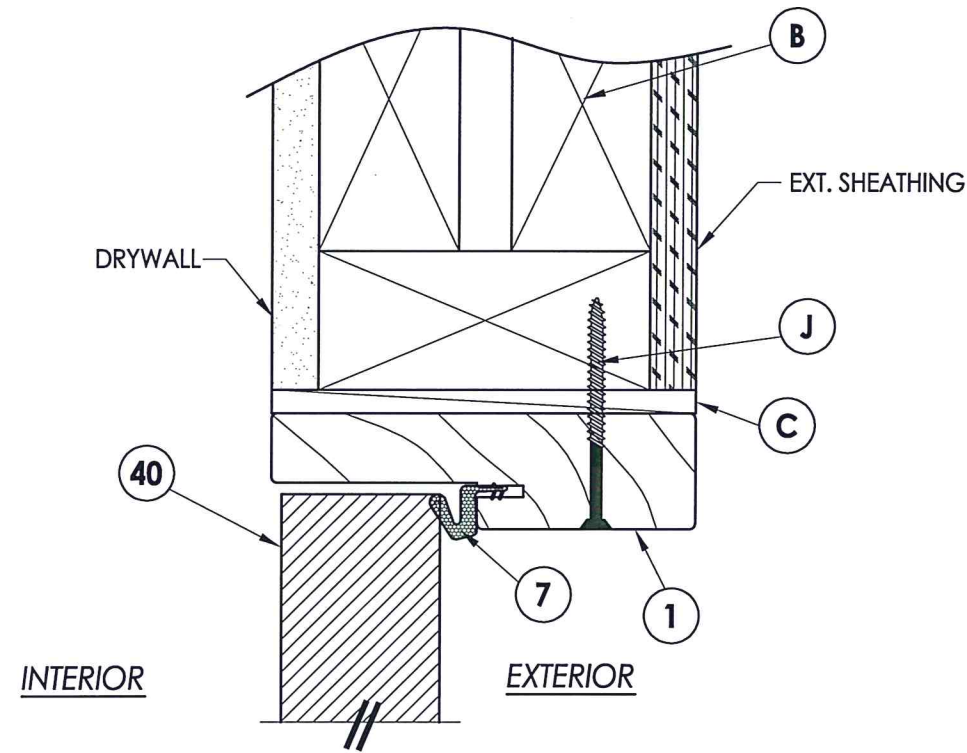
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PRODUCT: THERMA-TRU STEEL DOOR
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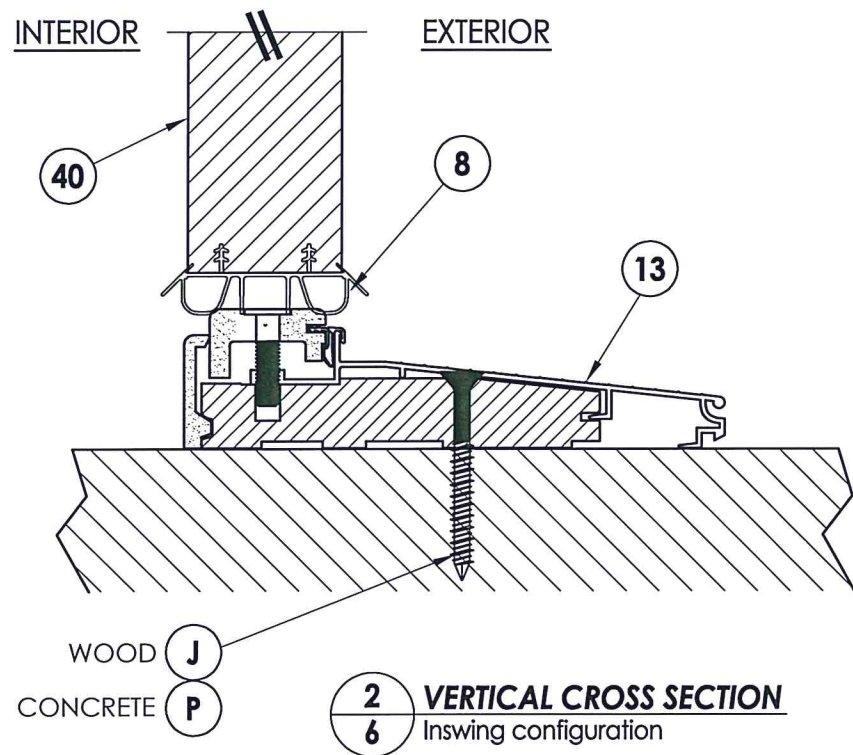
NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 01/23/13
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4303
 SHEET 5 OF 10

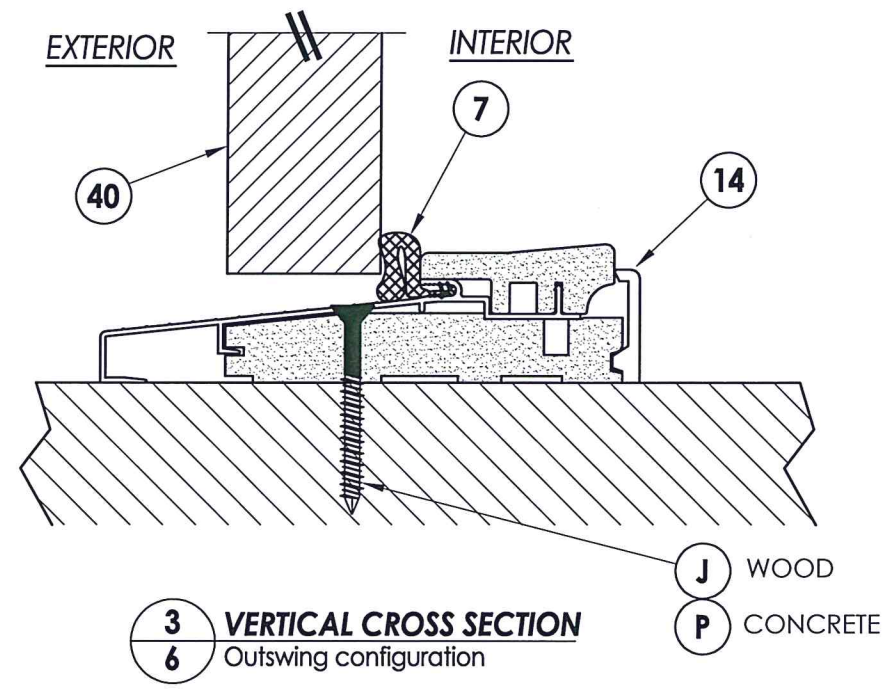
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1 VERTICAL CROSS SECTION
6 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
6 Inswing configuration



3 VERTICAL CROSS SECTION
6 Outswing configuration



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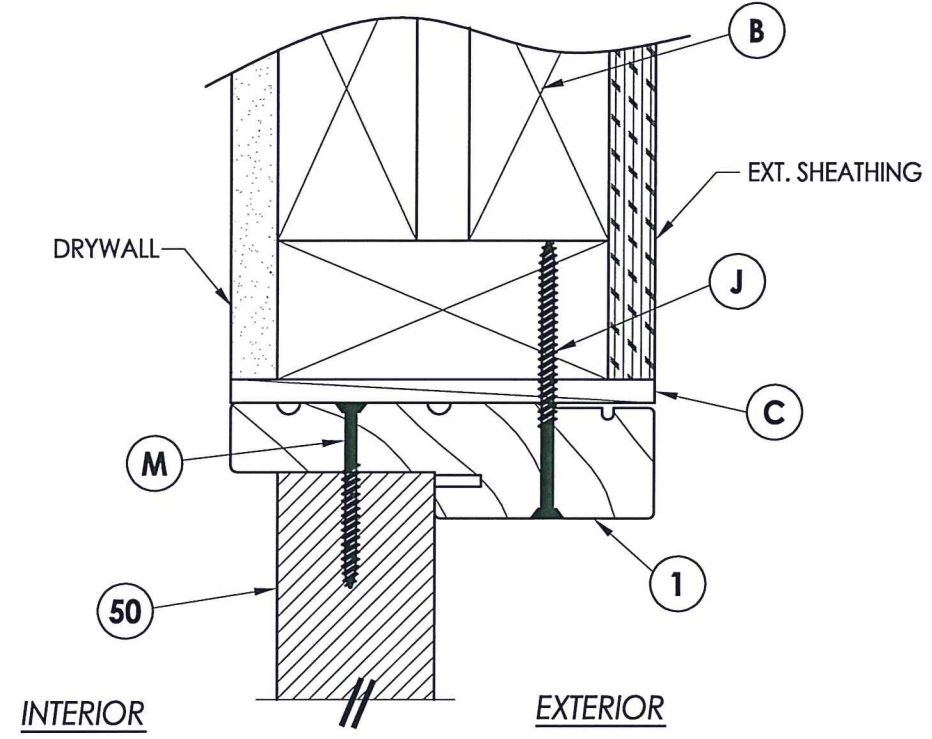
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PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

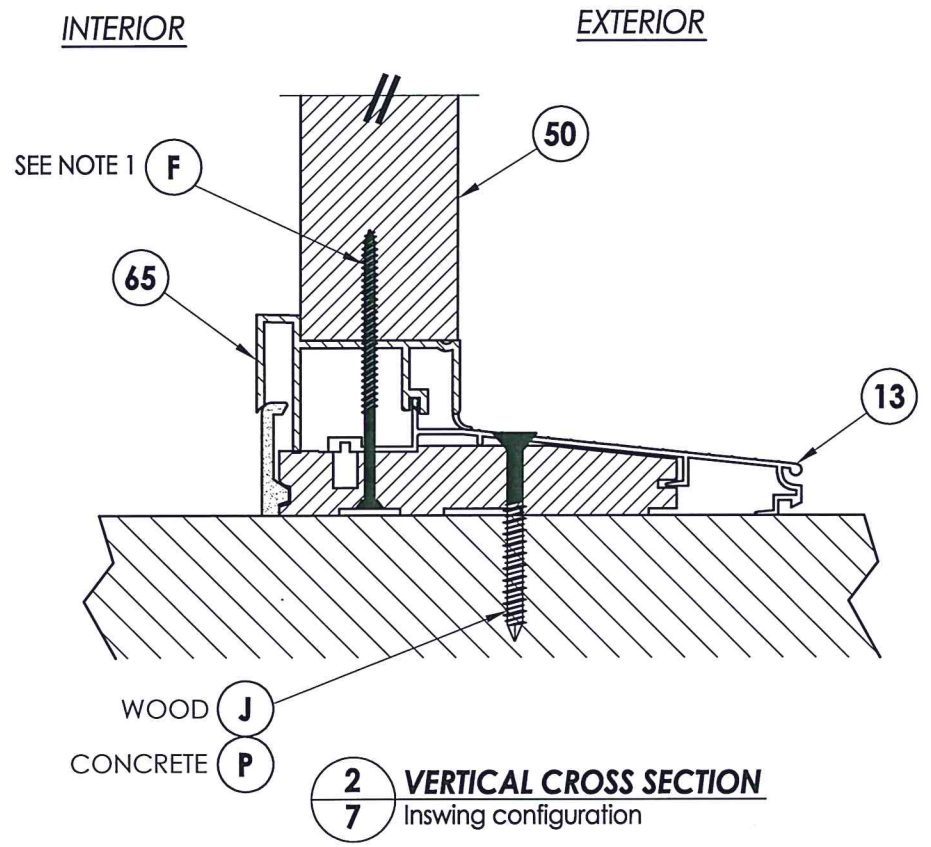
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 CHK. BY: LFS
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 SHEET 6 OF 10

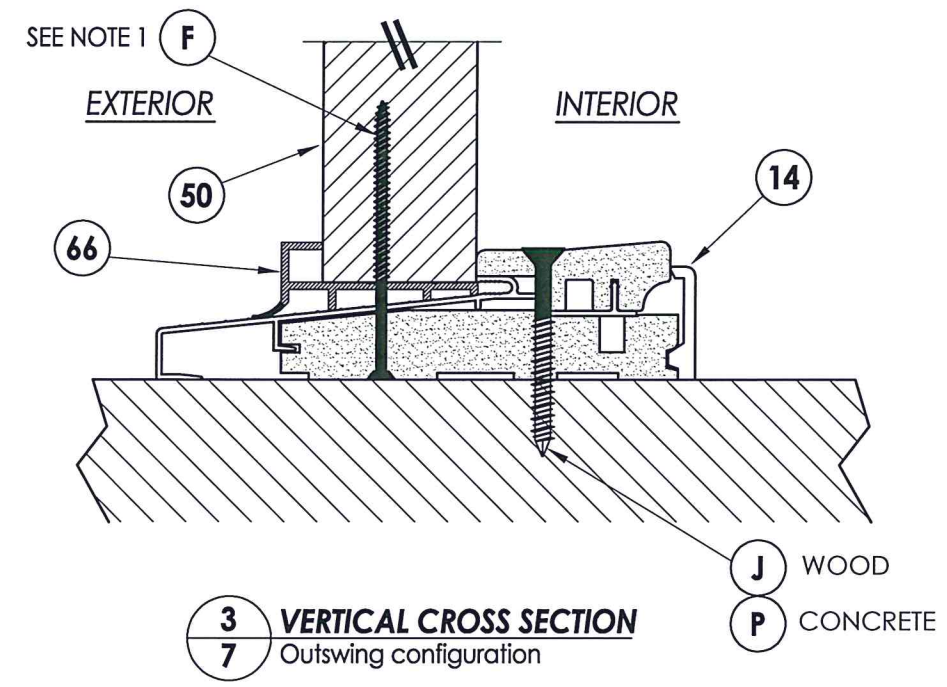
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1 VERTICAL CROSS SECTION
 7 Inswing shown - Outswing also approved



2 VERTICAL CROSS SECTION
 7 Inswing configuration



3 VERTICAL CROSS SECTION
 7 Outswing configuration

Note:
 1. Sidelite assembly screws located 3" from each end (2 total).



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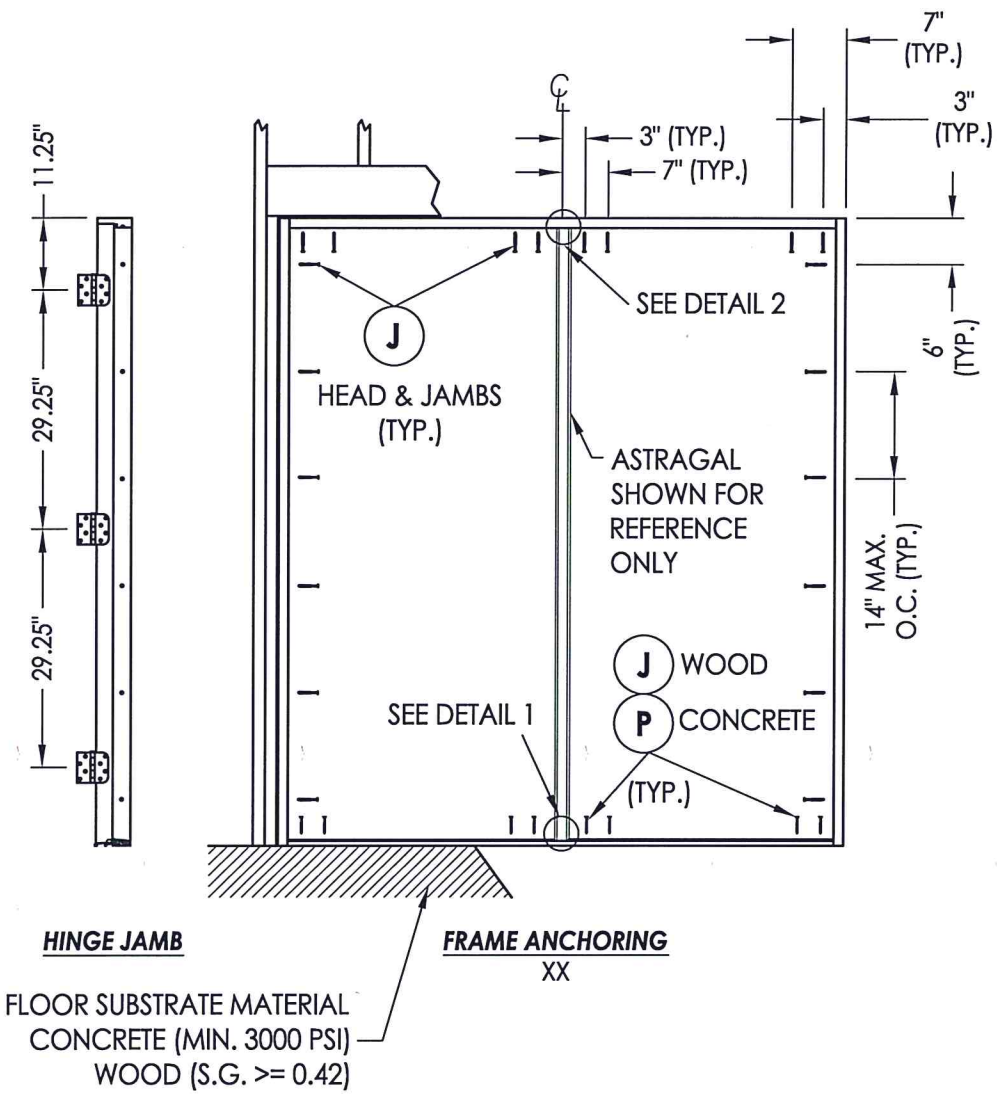
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 PART OR ASSEMBLY: VERTICAL CROSS SECTIONS

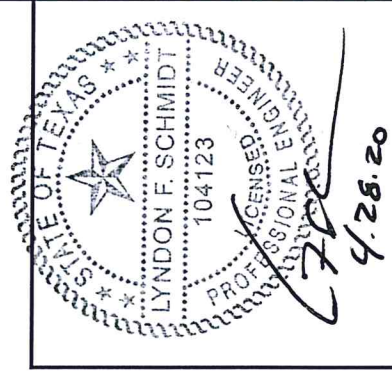
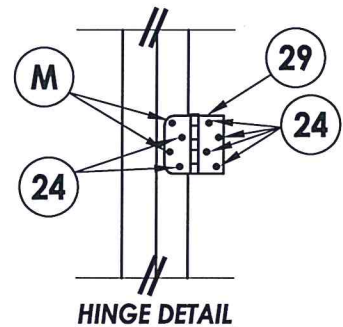
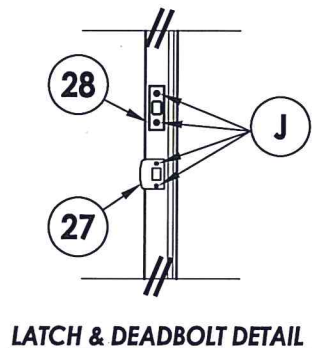
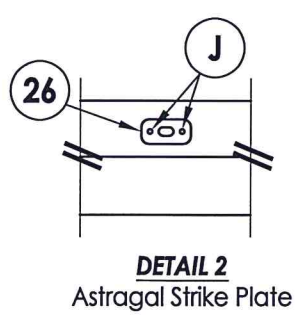
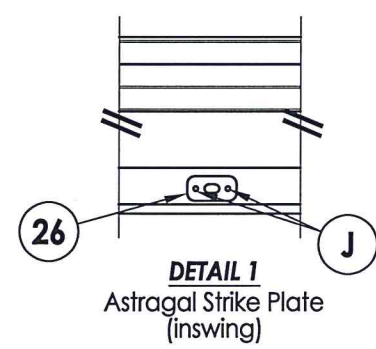
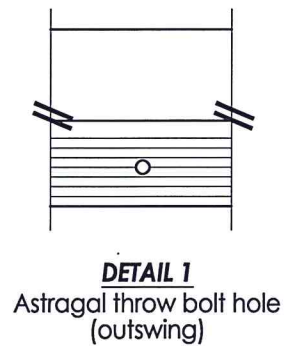
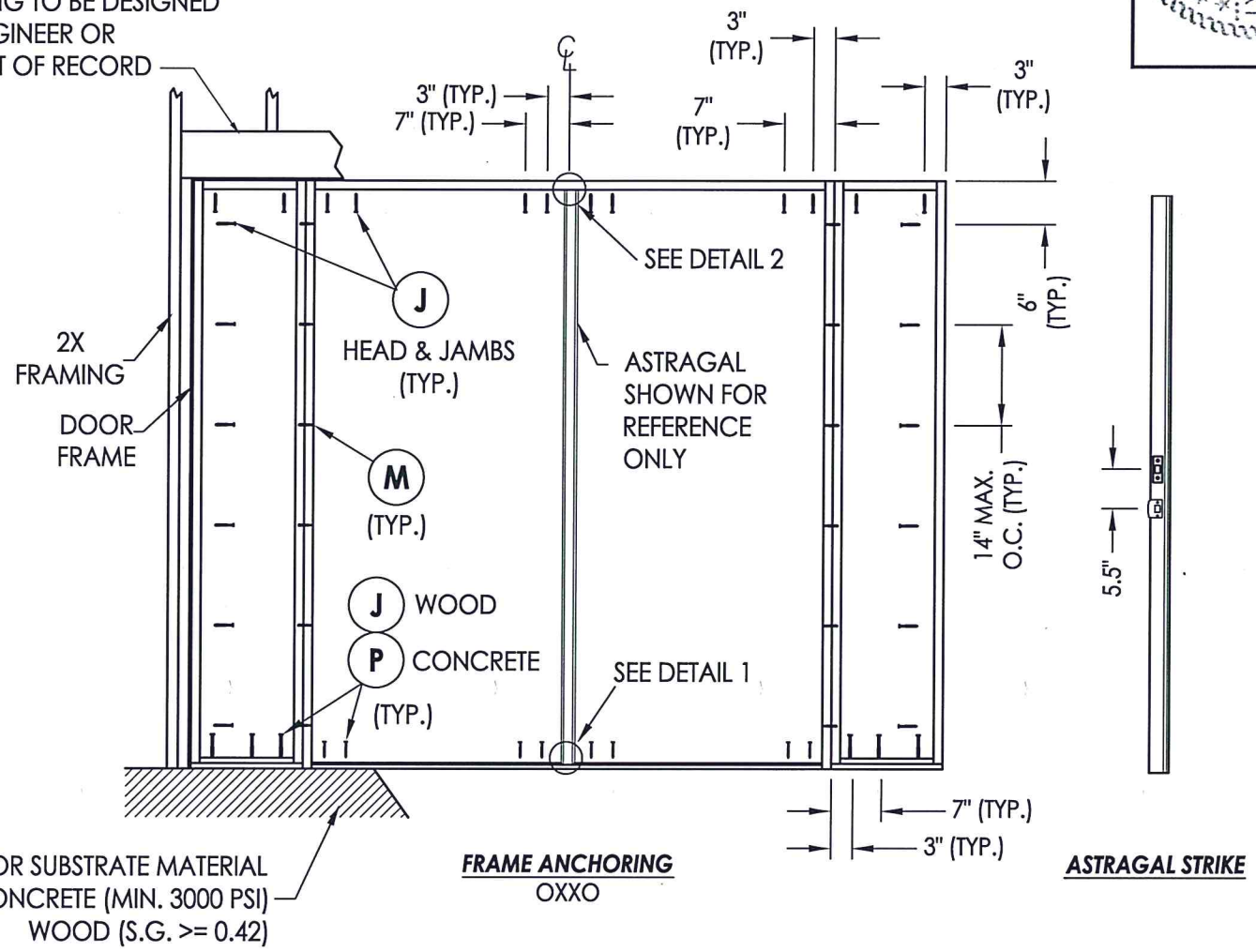
NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 01/23/13
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 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4303
 SHEET 7 OF 10

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2X FRAMING TO BE DESIGNED BY THE ENGINEER OR ARCHITECT OF RECORD



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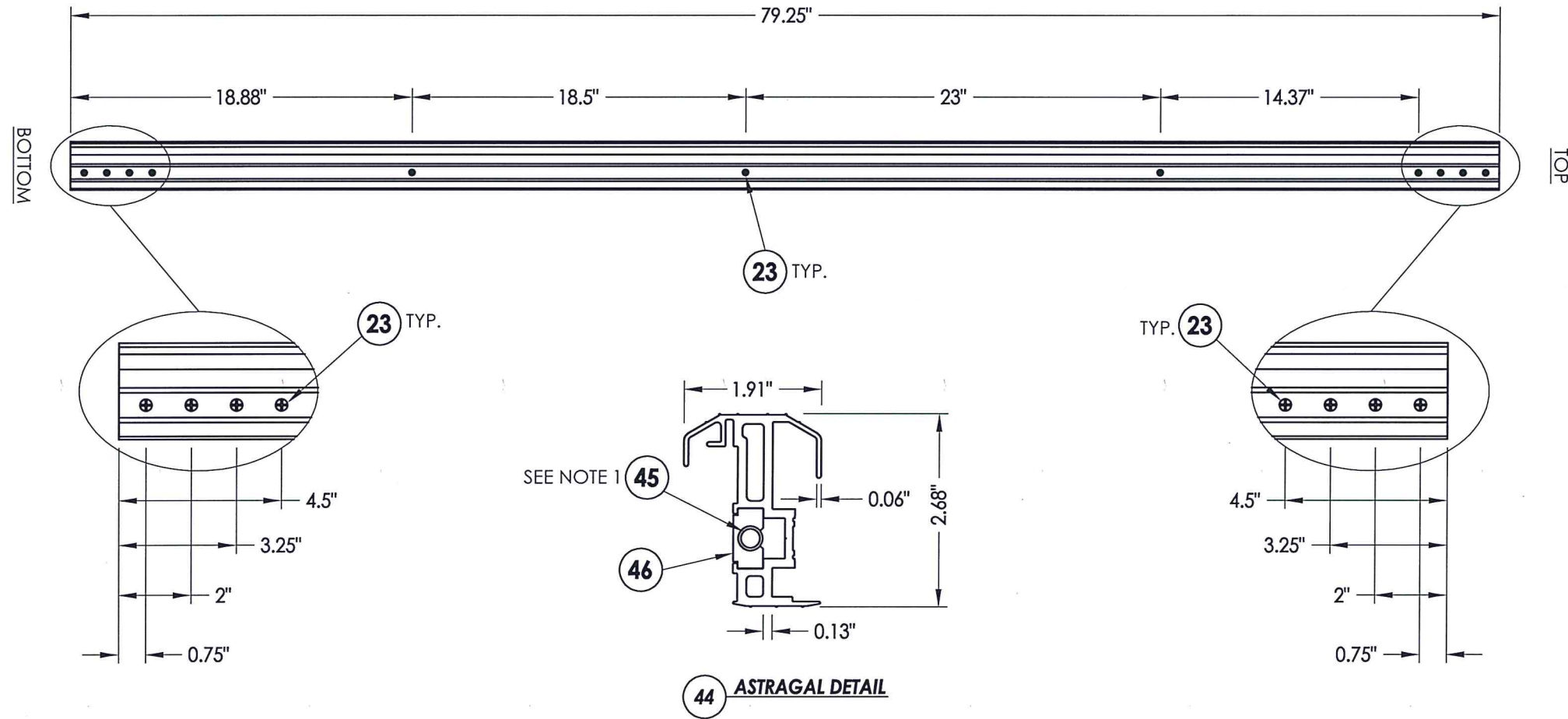
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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
TEXAS BOARD OF PROFESSIONAL ENGINEERS
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PRODUCT: THERMA-TRU STEEL DOOR
PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS

DATE: 01/23/13
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DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: TX-4303
SHEET 8 OF 10

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NOTE:

1. THE ASTRAGAL BOLT HAS A 3" THROW AT THE TOP AND AT THE BOTTOM.



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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: ASTRAGAL DETAILS

NO.	DATE	DESCRIPTION	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE	LFS
REVISIONS			

DATE: 01/23/13
 SCALE: N.T.S.
 DWG. BY: JK
 CHK. BY: LFS
 DRAWING NO.: TX-4303
 SHEET 9 OF 10

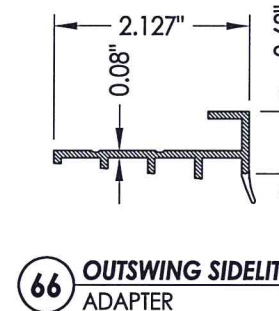
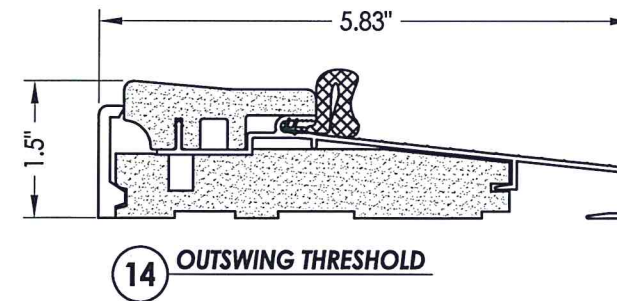
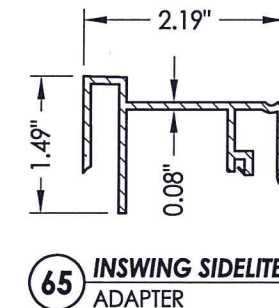
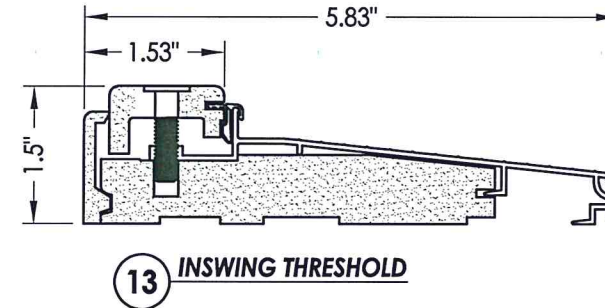
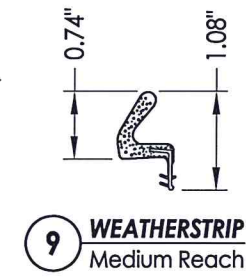
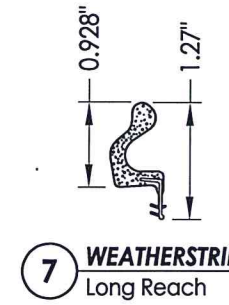
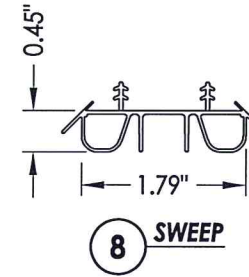
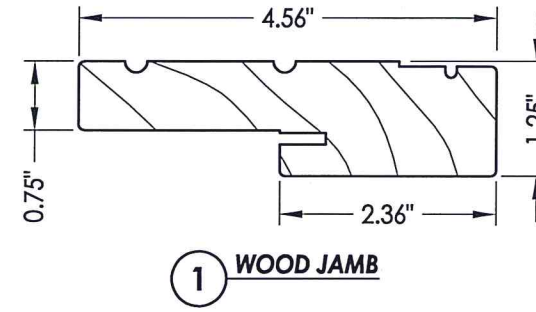
BILL OF MATERIALS

ITEM #	DESCRIPTION	MATERIAL
B	2X BUCK (SG >= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
F	#10 X 3" PFH WOOD SCREW	STEEL
J	#10 X 2-1/2" PFH WOOD SCREW	STEEL
M	#10 X 2" PFH WOOD SCREW	STEEL
P	1/4" PFH ELCO OR ITW CONCRETE SCREW (1-3/4" MIN. EMB.)	STEEL
1	JAMB - FINGER JOINTED PINE	WOOD
7	WEATHERSTRIP (Long Reach by Therma-Tru)	FOAM
8	SWEEP	VINYL
9	WEATHERSTRIP (Medium Reach by Therma-Tru)	FOAM
13	INSWING THRESHOLD	ALUM/COMP
14	OUTSWING THRESHOLD	ALUM/COMP
23	#10 X 1-1/2" PANHEAD SMS	STEEL
24	#10 x 1" PFH WOOD SCREW	STEEL
26	ASTRAGAL STRIKE PLATE	STEEL
27	LATCH STRIKE PLATE	STEEL
28	DEADBOLT STRIKE PLATE	STEEL
29	4" X 4" HINGE	STEEL
40	DOOR PANEL	-
44	HURRICANE ASTRAGAL	-
45	ASTRAGAL FLUSH BOLT	-
46	ASTRAGAL FLUSH BOLT RETAINER	-
50	SIDELITE PANEL	-
65	INSWING SIDELITE ADAPTER	PVC
66	OUTSWING SIDELITE ADAPTER	PVC

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	3"
ELCO ULTRACON®	1/4"	1-3/4"	1"	3"



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PRODUCT: THERMA-TRU STEEL DOOR

PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS

NO.	DATE	DESCRIPTION	LFS	BY
1	4/28/20	UPDATE TO 2018 IBC/IRC CODE		

DATE: 01/23/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: TX-4303

SHEET 10 OF 10